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Natural and Artificial Vesicles and Nanoparticles against Brain Diseases

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Message from the Guest Editor

Brain diseases (BD) affect millions of people around the world. These pathologies (inflammatory, trauma, tumors, stroke and neurodegenerative disease) represent a considerable global social and economic burden and constitute an unquestionable emergency, and a grand challenge for neuroscientists. Furthermore, the improvement of the solubility, stability and release of the drugs/molecules in specific brain regions and in particular target cells are essential factors in developing an effective therapy. Several studies have reported that extracellular vesicles (EVs) are released from cells of the central nervous system (CNS), playing a significant role in its functions. For these effects, VEs can be used for therapeutic purposes or as brain drug delivery systems (BDDS). EVs and artificial nanovesicles can target a CNS cell-type in specific regions of the brain. In conclusion, EVs and artificial nanovesicles, thanks to their capacities, may represent a promising strategy against BD. Therefore, authors are invited to present original research articles, review papers or communications focused on the EVs and artificial nanovesicles as therapeutic tools to contrast BD.

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Message from the Editor-in-Chief

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